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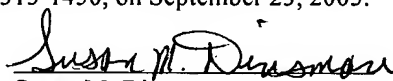
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Manalis, et al. Examiner: Lum, Leon Yun Bon  
Serial No.: 10/669,883 Art Unit: 1641  
Filing Date: Sept. 23, 2003  
Title: FABRICATION AND PACKAGING OF SUSPENDED  
MICROCHANNEL DETECTORS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATE OF MAILING**

I hereby certify that the foregoing document is being deposited with the United States Postal Service as first class mail, postage prepaid, "Post Office to Addressee", in an envelope addressed to: MS Amendment, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on September 23, 2005.

  
Susan M. Dinsmore

Sir:

**RESPONSE TO OFFICE ACTION UNDER 37 CFR § 1.111**

This Response to Office Action is filed in response to the Office Action mailed March 31, 2005, rejecting claims 1-7, 9-17, 19-21, 28, 43, 44, 46, 161 and 162. The cited references are U.S. Patent Nos. 4,896,966 (hereinafter, "Boisseau"), 5,982,534 (hereinafter, "Pinkel"), 6,337,479 (hereinafter, "Kley"), U.S. Patent Application Publication Nos. 2003/0073070 (hereinafter, "Fritz"), 2004/0038426 (hereinafter, "Manalis"), 2003/0027354 (hereinafter, "Geli"), and publication J. Microelectro. Systems, 6 December 2002, 11(6):703-708 ("Savran"). Applicant respectfully submits that the following amendments and remarks remove all grounds for rejection of the application, thereby placing it in condition for allowance.

**Amendments to the Claims** are reflected in the listing of claims that begins on page 2 of this paper.

**Remarks** begin on page 12 of this paper.